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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/524,150	05/26/2005	Gil Hun Lee	F-8588	1568
28107 7590 09/26/2007 JORDAN AND HAMBURG LLP 122 EAST 42ND STREET SUITE 4000 NEW YORK, NY 10168			EXAMINER NGUYEN, ANTHONY H	
			ART UNIT 2854	PAPER NUMBER
			MAIL DATE 09/26/2007	DELIVERY MODE PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

**Office Action Summary**

Application No.

10/524,150

Applicant(s)

LEE, GIL HUN

Examiner

Anthony H. Nguyen

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 26 May 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-7 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-3 and 6 is/are rejected.
- 7) ☒ Claim(s) 4, 5 and 7 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 11 February 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_.

## **DETAILED ACTION**

### ***Claim Objections***

Claims 1-7 are objected to because as being inferentially recited elements and proper antecedent basis is not always provided. For examples, there is no proper antecedent basis for "the base" (claim 1 lines 9, 12, 16), "the feeding roller means" (claim 1, lines 21,22) and "the rewinding roller means" (claim 1 lines 33,34). The elements "a rear bobbin axis" (claim 1 line 21) and "a front bobbin axis" are inferentially recited. In claim 2, it is unclear how the front/rear fixtures can face each other at the front of two legs since they appear to face each other between the front and rear legs (applicant's Fig.3). In claim 7, the word "balanc" appears to correctly be --balance--.

The above are simply examples of the errors present. Applicant is required to carefully review the claims and eliminate all such errors.

To the extent the claims are positively recite structure, it appears that the following prior art rejection is proper.

### ***Claim Rejections - 35 U.S.C. § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

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invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-3 and 6 are rejected under 35 U.S.C. § 103 (a) as being unpatentable over Codos et al. (US 2002/0,005,870) in view of Jones (US 5,468,080).

With respect to claims 1 and 3, Codos et al. teaches a digital printer having a base 609, a print head 30 which is driven by the drives 31 and 32, a rear guiding roller means 666 coupled with a transfer axis (not shown) and a take-up roller (no numeral reference), a rear take-up device having a rear tension means 667, a front guiding roller means 604 with a transfer axis (no numerical reference) a front supply device having a supply roller means 605 and a front tension means 653 as shown in Figs.2 and 3 of Codos et al. Codos et al. does not clearly teach the use of motors and sensors for the supply roller means and the take-up means or rewinding roller means. The use of motors and sensors for controlling the feeding of a web is well known in the art. For example, Jones teaches a tension means (D) having sensors 20a and 20b for controlling the tension of a web (F) of a supply roller 12 and a motor (not shown, Jones, col.3 lines 52 and 53) for driving a supply roller 12 as shown in Fig.1 of Jones. In view of the teaching of Jones, it would have been obvious to one of ordinary skill in the art to modify the digital printer of Codos et al. by providing the conventional use of motors and sensors as taught by Jones to improve the efficiency of tensioning a web which is fed to a print head. It is noted that Codos et al. teaches the front feeding device and the rear rewinding device. However, it would be obvious to one of ordinary skill in the art to switch the location of the feeding and rewinding devices depending on the printing configuration. With respect to claim 6, Codos et al. teaches the conventional use of an inside base heater 660 for drying the printing material.

***Allowable Subject Matter***

As presently advised it appears that claims 3,4 and 7 avoid the prior art but are objected to as depending from the rejected claim. These claims if properly rewritten in independent form and overcome the objection would be allowable.

The following is a statement of reasons for the indication of allowable subject matter:  
The prior art of record does not teach the diameter of the front roller of the front guiding roller means which is slightly larger than the diameter of the rear roller of the rear guiding roller means (claim 4), an ink-retrieving hole in along shape on the top of the base to collect the residues of the injected ink passing through the printing material (claim 5) and multiple front/rear adjusting holes between the two front /rear brackets and the weight of the front/rear eccentric axis to adjust tension strength of the front/rear eccentric axis (claim 7).

***Conclusion***

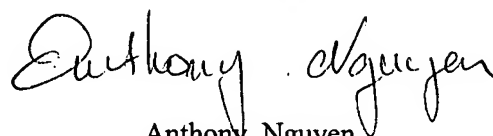
The patents to Samii et al., Baker et al., Wehrmamnn and Kuwabara et al. are cited to show other structuresobvious similarities to the claimed structure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anthony Nguyen whose telephone number is (571) 272-2169. The examiner can normally be reached daily from 9 AM to 5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Judy Nguyen, can be reached on (571) 272-2258.

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The fax phone number for this Group is (571) 273-8300.

A handwritten signature in cursive script that reads "Anthony Nguyen".

Anthony Nguyen

09/24/07

Patent Examiner

Technology Center 2800